

Shiqing (Licia) He

Ph.D. Student in Information Science

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Research Areas: Information Visualization, Information Retrieval, Data Science, Design, Art, HCI

shiqinghe.com

Education **University of Michigan, School of Information, Ann Arbor, MI** 2015-present

- PhD in Information Science, Advisor: Eytan Adar

Union College, Schenectady, NY 2011-2014

- Bachelor of Science. Double Major in Computer Science and Studio Art with Honors
- Magna Cum Laude, Union Scholar, Phi Beta Kappa Member

Skills	Fine Art	Digital Graphics	Technical Courses	Programming
	▪ Printmaking	▪ Adobe Creative Suite	▪ Machine Learning	▪ Python
	▪ Painting	▪ Tableau	▪ Natural Language Processing	▪ Javascript
	▪ Sculpture	▪ 3D Modeling	▪ Modeling and Simulation	▪ R
	▪ Origami	▪ Engineer Graphics	▪ Algorithm	▪ Java
	▪ Fiber art	▪ Graphics Design	▪ Artificial Intelligence	▪ Scheme
	▪ Natural Dye	▪ Digital Painting		▪ Processing

Publications • He, Shiqing, and Eytan Adar. "VIZITCARDS: A Card-Based Toolkit for Infovis Design Education." *IEEE transactions on visualization and computer graphics* (2016).

• He, Shiqing. "Coding A Coloring Book: Coloring Scribbling-Style Drawings Using Python." *Computer Art Congress 5* (2016).

Contracted Author for Douban.com 2014-present

- Publish weekly journals: "*The World is a Big Dye Vat*", a personal travel column at *Douban Read*, one of the most popular Chinese online publishing website. (<http://read.douban.com/column/1236085/>) (2014-2015)

Current Research and Projects **Sensing Wikimedia**

- Advised by Eytan Adar, analyzing the content of Wikimedia through image analysis. Using machine learning techniques to sense the content of Wikimedia images and to study user behavior in different Wikipedia domains.

Playfulmation: Designing Game-like Narrative Visualization

- Advised by Eytan Adar, exploring the design space of using game elements in narrative visualizations to encourage desired user engagement. Designing visualizations with game elements and planning to run tests that compare game-like visualizations with non-game visualizations.

Digitizing Marbling Patterns

- Exploring different ways of transforming traditional paper marbling patterns into digital and physical art. Creating marbling papers and running marbling workshops.

Award and Fellowship **Thomas J. Watson Fellowship** 2014-2015

- Selected as one of the 44 Thomas J. Watson 2014 awardees, traveling around the globe for an independent study on natural dye production and related art. Conducting a natural color research by seeing and learning in countries include Japan, South Korea, Italy, Spain, Germany, Netherlands, Australia, Nepal, Thailand and Singapore.

Arnold L. Bittleman Memorial Prize 2013

- Awarded as "the student who has studied drawing in the Visual Arts Department and whose work, in the judgment of the Visual Arts faculty in collaboration with an outside juror, is outstanding."

2013 Grace Hopper Celebration Scholarship 2013

- Received 2013 GHC Scholarship to attend 2013 GHC.

Honorable Mention, First Intercollegiate Art Competition 2013

- Entered the First Intercollegiate Art Competition hosted by Lower Adirondack Regional Art Council, Glans Falls, NY, and received honorable mention for the intaglio print named *Stone Lion*.

Technical experience	Student Innovation Contest, 29th User Interface Software and Technology (UIST16) 2016
	• Collaborated with Shiyuan He from Keio University (Japan), designed a board game using the Electrical Muscle Stimulator (EMS). Participated in the demo section.
	Research Internship, IBM Beijing Research Lab, Beijing, China 2013
	• Collaborated with a research team in IBM Beijing Research Lab on projects related to smart grid management. Within the nine-week internship, improved an IBM product by analyzing and refining a mathematical model. Also designed a data visualization system for a large dataset.
	Senior Thesis Research Advised by K.Striegnitz, Union College, Schenectady, NY 2013-2014
• Conducting a year-long research on automatic note summarization and formatting. With the goal of developing tools to generate organized notes from course transcripts, studied and researched on natural language processing, artificial intelligence and other related areas.	
The Mathematical Contest in Modeling, COMAP, Schenectady, NY 2013-2014	
• Participated in the 2013 and 2014 Mathematical Modeling Contest. In 2014, as one of six students representing Union College, developed a mathematical model that selects the top 5 coaches in three sports within the last century. The model was ranked top 9% among 6755 international teams and received Meritorious Prize. In the contest of 2013, developed a mathematical model to address Saudi Arabia Water Crisis, which received honorable mention.	
Term Abroad, Union College, New Zealand 2013	
• Participated in a three-week Mini-term in New Zealand to study electric power development and environmental management. Traveled over 2500 miles to study the technical, economic, environmental, sociopolitical and cultural issues in electric power generation and transmission in New Zealand.	
Art Experience	Commissions:
	• <i>“the Flow of the Lotus”</i> , acrylic on wall, 120 x 160 inches, MeiZao Villa Resort, Yunnan, China 2016
	Individual Exhibitions
	• <i>“Childhood Memory”</i> , Senior Honorary Exhibition, Union College Visual Art Gallery, NY 2014
	• <i>“Human Body”</i> , Scholar Project Exhibition, Union College Visual Art Gallery 2012-2013
	• Bittleman Drawing Award Winner Exhibition, Union College Visual Art Gallery 2013
	Group Exhibitions
	• All Media Exhibition, Ann Arbor Art Center, Ann Arbor, MI 2016
	• First Intercollegiate Art Competition, Lower Adirondack Regional Art Council, Glans Falls, NY 2013
	• <i>Drawn to Print</i> Paris mini-term Exhibition, Union College Visual Art Gallery, Schenectady, NY 2013
	• Union College Visual Art Selected Work, Union College Visual Art Gallery, Schenectady, NY 2012
	• Steinmetz Exhibition, Union College Visual Art Gallery, Schenectady, NY 2012
	• Student Invitation Exhibition, Union College Visual Art Gallery, Schenectady, NY 2012
Artist Residency	
• Resident Artist, Empty Space, Chiang-Mai, Thailand 2015	
• Resident Artist, Scuola Internazionale di Grafica Venezia, Venice, Italy 2014	
Term Abroad, Union College, Paris, France 2012	
• Participated in a three-week mini-term in Paris, France to study printmaking and art history.	
Conferences Talks and Workshops	• Presenter(Talk), INFOVIS 2016, Baltimore, MD 2016
	• Student Innovation Contest Participant, UIST 2016, Tokyo, Japan 2016
	• Presenter(Talk), The Michigan Interactive and Social Computing (MISC) 2016
	• Attendee, Learning Analytics Summer Institute (LASI 2016), Ann Arbor, MI 2016
	• Presenter(Poster), CRA-W Grad Cohort Workshop, San Diego, CA 2016
	• Student Volunteer, SCGI Conference, Portland, OR 2016
	• Presenter(Poster), IBM Summer Intern Poster Section, IBM CRL, Beijing, China 2013
	• Presenter(Talk), Steinmetz Symposium, Union College, Schenectady, NY 2013
	• Attendee, Grace Hopper Celebration for Women in Computing, Minneapolis, MN 2013
	• Attendee, New York Conference for Women in Computing, Albany, NY 2013
• Student Volunteer, Grace Hopper Celebration for Women in Computing, Baltimore, MD 2012	
Teaching	Information Visualization (SI649/EECS548) 2016
	As a Graduate Student Instructor (GSI) of University of Michigan, School of Information, assisted Prof. Eytan Adar and Prof. Matthew Kay to teach an upper-level graduate course about Information Visualization. Designed programming labs and design workshops for the course.